

MAC CONKEY BROTH (100 ML)

INTENDED USE:

MacConkey Broth is used for the detection of coliform organisms in milk and water.

PRINCIPLE AND INTERPRETATION:

Peptone provides amino acids and other growth factors. Lactose is a carbon energy source for gram-negative lactose-fermenting bacilli. Oxgall inhibits the growth of gram-positive organisms. Bromcresol purple is the indicator.

COMPOSITION:

Ingredients	Gr/Liter
Oxgall	5 gr
Pancreatic Digest of Gelatin	20 gr
Lactose	10 gr
Bromcresol Purple	0,01 gr

***Formula adjusted, standardized to suit performance parameters

pH: 7,1 ± 0,2

PRECAUTIONS:

For professional use only. Do not use tubes if they show evidence of microbial contamination, discoloration or other signs of deterioration.

TEST PROCEDURE:

Incubation at a temperature of 35±2°C and observed after 18-24 hours.

QUALITY CONTROL:**1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 7,1 ± 0,2

Apperance: Dark red.

3.Microbiological Control: Incubation at a temperature of 35±2°C and observed after 18-24 hours.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Escherichia coli ATCC 8739	10-100	Good	colour change to yellow (+)
Salmonella typhimurium ATCC 14028	10-100	Good	colour no change (-)
Pseudomonas aeruginosa ATCC 9027	10-100	Good	colour no change (-)
Staphylococcus aureus ATCC 6538	100-1000	Inhibition	Good

LIMITATIONS OF THE PROCEDURE:

For the enrichment of bacteria other than Enterobacteriaceae, nonselective media such as Tryptic Soy Broth should be used. Growth obtained in this medium must be subcultured onto appropriate solid media to obtain pure cultures which afterwards can be identified with methods appropriate for the isolate(s).

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label..Do not use beyond stated expiry date.

DISPOSAL:

Incubated medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected tube should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 01111

Content/Packaging: Screw cap x 20 piece /box

REFERENCES:

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- 1.MacConkey A. T., 1900, The Lancet, ii: 20.
- 2.Childs E. and Allen, 1953, J. Hyg: Camb. 51:468-477.
- 3.European Pharmacopoeia, 2011, European Dept. for the Quality of Medicines
- 4.The United States Pharmacopoeia, 2011, The United States Pharmacopeial Convention. Rockville, MD.
- 5.British Pharmacopoeia, 2011, The Stationery office British Pharmacopoeia
- 6.Japanese Pharmacopoeia, 2008.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature
Limitation



Do not reuse



Contains sufficient
for <n> tests



Look at user manual



Manufacturer